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A REVIEW ON VOICE SENSING PERSONALIZED WEB SEARCH

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ABSTRACT :

In this paper we propose personalized web search through the voice, in this any partially impaired person who have difficulty in seeing and reading can search or use the web technology by using voice command and also get the result in the form of audio. This is also made for normal person who wants to access the hands-free access of internet. In this we are also providing the functionality of personalization, so the user can get customized results according to their requirement.

Keywords- personalized web search, Voice Recognition, Speech Synthesizer, Page Rank, browsing history.

1. INTRODUCTION

The technology of voice browsing is rapidly evolving these days. The cell phones preference over connected PCs is considered to be prime factor for such development. Listening and speaking are the natural modes of communication and information gathering. Speech interface integrated browser helps users by using an interactive voice user interface, useful to those who have difficulties in seeing and reading a web content.

Consequently, we are approaching to a platform, where operating on voice based approach of browsing is more preferred over textual mode. The basic principle on which voice or speech browser operates involves accepting and presenting both textual and voice information. Additionally, it renders information involving conversation of text to speech and vice versa. People want to get accurate and appropriate data at the top of search results in a user friendly manner. People also want to get personal space over the internet when they are browsing on web, from this arises a need of a highly efficient and effective ranking algorithm that provides search results according to user preference. In this paper we are able to show how new technique of voice browsing effectively unites speech recognition and synthesis with efficient personalized search, that can be helpful in coming years. Our current work also clarifies significance of personalization by creating individual search history for each user on the browser and also focuses on the search results to get customized according to the user demand.

2. LITERATURE REVIEW

Due to the increasing use of audio visual communication tools invites people to use new modernized tools in education. For the success of students is to adapt the modernized educational equipment by voice. Multi tools are always

beneficial then single tool for educational purposes in web application. This is a modernized period where the teaching based upon web technology and media is better than verbal teaching. It increases the level of learning, teaching and also provides solid information. Furthermore it improves students speaking and listening comprehension skills by the help this application [1].

Searchy is a personal agent, embedded in the Web browser, able to sense user's tastes, to assist her/him duringqueryformulation phase and, finally, to filter and sort the results according to the user's needs. Searchy uses the DART P2P network to store user's profiles in order to enable collaborative recommendations [2].

In [3], a novel approach is proposed that personalize web search result through query reformulation and user profiling.First,a framework is proposed that identify relevant search term for particular user from previous search history by analysing web log filemaintained in the server.These terms are appended to user's ambiguous query. Second, the proposed approach proceeds the user's search result and re-rank the retrieved result by identifying interest value of user on retrieved links.

In[4], This paper deals with the development of akeyboard lesssocial networking website forvisually impaired. The term keyboard less signifies minimum use of keyboard and allows the user to explore the
contents of the website using assistive technologies like screen readers and speech to text (STT) conversion technologies which in turn provides a user friendly experience for the target audience.

In this paper, we proposed a method for personalized web search. Personalized web
search is any action taken to optimize the search result according to user's individual preferences. Different information retrieval techniques have been widely used to reduce access latency problem of the internet[5].

In this paper they have proposed custom personalization searching. Theyhave used page ranking algorithm to rank the pages and also provide the functionality of the personalization for getting customized searchaccording to user demand.They also focussed on page authority and domain authority[6]. In this they are trying to get most important link on the top of the search result, for getting this type of output they are using page ranking algorithm.The Page Rank algorithm, is the most widely used rankingalgorithm. It considers that if a web page has important linksto it, then its links to other web pages also become important.It takes into account the back links to a page and distributesthe ranking to the pages through links: a page gets a higherrank if the sum of the ranks of its entire back links is high.
In [7],ShilpaSethi proposed design of personalized search system in which query generator is used to capture all the senses of the main query and assist the user with alternate queries.In this paper they proposed personalized search system which uses two tools, one is personalization and another is alternate queries. In this personalization based upon user profile, click history and last action performed by the user is used to improve the ranking of search results.

Venkatesh. A, proposed the architecture of a speech interface for the partially impaired person,

in this they have used the text to speech conversion to render the textual information[8].

Dilip Kumar., et.al [9] proposed ,the main objective is to provide more easy interaction between user (disabled people) and web application. They have used JSAPI component of speech recognition from the java technology.in this paper their main focus on speech reorganization and also getting results in voice form. For better speech reorganization they have used speech recognizer. Speech recognizer will allow user to give input in the form of voice.For supporting command and control reorganization dictation systems and speech synthesis the java speech API is used as an application programming interface.

In [10], This paper presents an investigation on the possibility to integrate different types of features such as MFCC, PLP and gravity centroids to improve the performance of ASR in the context of Hindi language. Our experimental results show a significant improvement in case of such few combinations when applied to medium size lexicons in typical field conditions.

CONCLUSION:

The proposed system will provide personalized outputs in the form of voice.

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